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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,159	08/08/2001	Stephen Clark Purcell	274754 BEL-033	3076
909	7590 05/05/2004		EXAMINER	
PILLSBURY WINTHROP, LLP			BULLOCK JR, LEWIS ALEXANDER	
P.O. BOX 10 MCLEAN, '			ART UNIT PAPER NUMBER	
,			2126	マ
			DATE MAILED: 05/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<u> </u>
OSC A Maria Communication	09/925,159	PURCELL, STEPHEN CL	ARK 1
Office Action Summary	Examiner	Art Unit	
	Lewis A. Bullock, Jr.	2126	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the fill apply and will expire SIX (6) MC cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication (35 U.S.C. § 133).	ion.
Status			
 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal ma		is
Disposition of Claims			
4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the	epted or b) objected to drawing(s) be held in abeya ion is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121	(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in a ity documents have bee i (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 5, 12, 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The cited claims detail sending a forward message to the source when that reverse message has a higher priority than other reverse messages. The examiner cannot find any disclosure in the specification of sending a forward message to the source based on the priority of the reverse messages. It can be ascertain that a reverse message is sent to the source based on the priority of the reverse messages.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 5, 7-10, 12, 14-17, 19 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by NECHES (U.S. Patent 5,276,899).

As to claim 1, NECHES teaches a method comprising: serially receiving, from a source (host computer), a plurality of forward messages (requests) each addressed to one of a plurality of destinations (interface processor / other processors); receiving a plurality of availability signals (status indicators of the processors), each availability

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signal indicating that one of the destinations (other processors) is available to accept a forward message (whether the processor is busy, idle, etc.) (col. 6, line 16-17); simultaneously (concurrently) sending a forward message (message packet) to each available destination (other processor); simultaneously (concurrently) receiving, after a predetermined period of time, a plurality of reverse messages (response information) from the destinations (other processors), each reverse message (response information) corresponding to one of the forward messages (message packets) simultaneously sent to an available destination (other processors); and serially sending the reverse messages (response messages) to the source (host computer) (col. 4, line 29 – col. 6, line 22; col. 11, line 29 – col. 12, line 42; col. 15, line 25 – col. 18, line 21; col. 43, line 48 – col. 44, line 57).

As to claim 2, NECHES teaches the source (host computer) identifies each of the forward messages (requests / message packets) by a different tag (transaction number / TN), further comprising: placing a tag (transaction number / TN) in a delay buffer (H.S. RAM / incoming or outgoing message storage) when sending to a destination (other processor) the forward message (message packet) identified by that tag, wherein the delay buffer implements a delay equal to the predetermined period of time such that the tag is available when receiving from memory the reverse message (response information) corresponding to the forward message (message packet); and sending the tag to the source (host computer) with the reverse message (response information), whereby the source (host computer) associates the reverse message (response

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information) with the forward message (message packet) (col. 23, line 50 – col. 28, line 44).

As to claim 3, NECHES teaches associating a priority (priority) with each forward message (message packet); and sending a forward message (message packet) to a destination (other processor) when that forward message (message packet) has a higher priority than other forward messages (message packets) addressed to the destination (other processor) (col. 4, line 29 – col. 6, line 22; col. 11, line 29 – col. 12, line 42; col. 15, line 25 – col. 18, line 21).

As to claim 5, NECHES teaches associating a priority (priority) with each reverse message (response information); and sending a reverse message (response information) to the source (host computer) when that reverse message (response message) has a higher priority than other reverse messages (response messages) (col. 4, line 29 – col. 6, line 22; col. 11, line 29 – col. 12, line 42; col. 15, line 25 – col. 18, line 21).

As to claim 7, NECHES teaches each destination is a memory bank (via the processors being access module processors controlling different secondary storages), each forward message (message packet) is a memory transaction (performing operations on the storages), and each reverse message (response information) is the

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result of one of the memory transactions (col. 4, line 29 – col. 6, line 22; col. 11, line 29 – col. 12, line 42; col. 15, line 25 – col. 18, line 21).

As to claims 8-10, 12 and 14, reference is made to an apparatus that is similar to the method of claims 1-3, 5 and 7 and is therefore met by the rejection of claims 1-3, 5 and 7 above.

As to claims 15-17, 19 and 21, reference is made to a computer program product that is similar to the method of claims 1-3, 5 and 7 and is therefore met by the rejection of claims 1-3, 5 and 7 above.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4, 6, 11, 13, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over NECHES (U.S. Patent 5,276,899).

As to claims 4 and 6, NECHES teaches the forward message (message packets) and reverse messages (response information) having priorities and processing the messages based on their priorities (col. 4, line 29 – col. 6, line 22; col. 11, line 29 – col. 12, line 42; col. 15, line 25 – col. 18, line 21; col. 43, line 48 – col. 44, line 57).

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However, the NECHES does not teach the priorities represent the age of the message. "Official Notice" is taken in that it is well known in the art at the time of the invention that a priority represents the age of the message, i.e. how long ago the message was sent, or what time it was generated. Therefore, it would be obvious to one skilled in the art to combine the teachings of NECHES with the well-known technique of priority representation in order to avoid excessively delaying low priority messages.

As to claims 11 and 13, reference is made to an apparatus that is similar to the method of claims 4 and 6 and is therefore met by the rejection of claims 4 and 6 above.

As to claims 18 and 20, reference is made to a computer program product that is similar to the method of claims 4 and 6 and is therefore met by the rejection of claims 4 and 6 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (703) 305-0439. The examiner can normally be reached on Monday-Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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